

IP 300 USER MANUAL

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RAS Port

H245 Port

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IP PHONE Summary

This manual contains detailed system characteristics of the IP PHONE.

IP PHONE Characteristics

IP PHONE is a net phone terminal used for audio communication via IP network. It is suitable for enterprise LAN, IP Telephone Services Provider's network and Internet user.

IP PHONE can transfer the voice to IP packet directly and transmit via network.

Preset by IP Telephone Services Provider or enterprise LAN administrators, IP PHONE can be used by the customer terminal plug & play.

With suitable network, IP PHONE can be set with an E.164 phone number so that its operation is just like a phone on SCN.

Two 10 base-T RJ-45 port for connecting with network

May communicate with a phone on PSTN (with suitable network) or a compatible IP phone or application.

Support G.711A, G.711 μ , G.723.1 5.3/6.3 kbps and G.729A/B audio codec.

If necessary, the calling signal can be set as H.323 or SIP.

Good interoperability with IP phone, gateway and gatekeeper, which are compatible with H323V4.

LCD display

System Characteristics

In this chapter, we will make a detailed description on the system characteristics of IP PHONE.

Hardware Characteristics

Keypad—besides the standard keys 0-9,*,? , there are another 15 function keys for operation and setting of IP PHONE (Details see section IP PHONE setting).

Software Characteristics

Determined by different protocol used by the services provider, the IP PHONE owns different software characteristics, following are characteristics with protocol H.323V4:

Log on gatekeeper

Automatic find gatekeeper

? Automatic assign IP address, subnet mask and gateway IP address with DHCP

Remote upgrading

Voice active detection

Comfortable noise generation

16ms echo cancellation

Dynamic buffer management—minimize effect to voice quality caused by audio delay

jitter

Optional Configuration Methods:

? setting with keypad of the IP PHONE;

?Through network interface, setting with standard Telnet program;

?Setting with browser based on WEB.

Standard and Protocol

The IP PHONE may support following standards and protocol:

? IEEE 802.3 10 Base-T ? 1 RJ-45 connector.

? G.711A, G.711μ, G.723.1 5.3K/6.3 Kbps and G.729 audio codec.

? Optional calling signal of H.323 or SIP and MGCP.

 **NOTE** For AT-323 net phone, G.723.1 or G.729 audio codec algorithm will be chosen by upgrading/updating the software. After upgrading/updating the software, the phone should be restarted.

Quick dial-up setting

Definable dialing plan

TCP/IP: Internet Transport and Control Protocol

RTP: Real-time Transport Protocol

RTCP: Real-time Control Protocol

G.723.1? G.729 VAD/CNG economical bandwidth

G.165 16ms Echo cancel

DTMF? DTMF Tone Generate and Detection

DHCP: Dynamic Host Configuration Protocol

DNS: Domain Name Server

NTS: Network Time service

Telnet? Internet's remote login protocol

TFTP? Trivial File Transfer protocol

HTTP: Hyper Text Transfer protocol

Build in H323 proxy support

Electric Characteristics

Voltage: 7.5V DC

Power: 0.5W (max.)

Power adapter: AD/DC input 220V, 400mA

Network interface: RJ-45 Ethernet Connect

Operational Environment

Operational temperature: 0 to 50° C (32° to 122° F)

Storage temperature: -30° to 65° C (-22° to 149° F)

Humidity: 10 to 90% no dew

Specification

198 x 176 x 60 mm (L x W x H)

Installing the IP PHONE

Front panel see Fig.1

Keypad

1. Local IP address
2. Service IP address
3. Phone number
4. Subnet mask
5. Router IP
6. Quick dial-up
7. made call
8. Missed ID
9. Volume -
10. Save key
11. Volume +
12. Redialing
13. Calling
14. Hand free(SPEAKE)
15. LED
16. Save number key
17. Number key

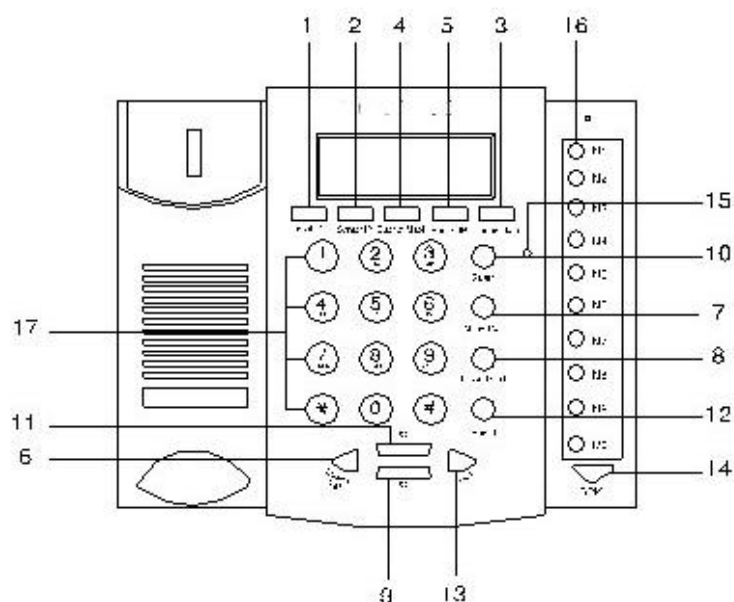


Fig.1

NOTICE With H.323 protocol, services provider IP address refers to gatekeeper IP address

Side view

See Fig.2

Interface

RJ-45 port

Power adapter port

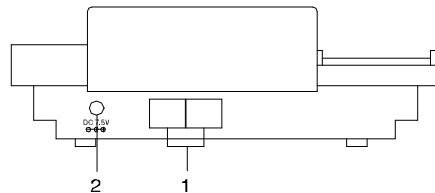


Fig.2

Installing Process:

1. Collect all the necessary parameters of your network for your IP PHONE setting.

If the network supports DHCP service or not

Local IP address

Subnet mask

Default router address

With gatekeeper, gatekeeper IP address and local E.164 phone number

2. Connect the IP PHONE according the following methods

Put your IP PHONE nearby the power socket

Insert one end of the Ethernet skip-connecting cable into RJ45 connector at the

backside of the IP PHONE and connect the other end with HUB or switch or wall

socket/ground socket of the structured cabling system.

NOTE If network without HUB, the IP PHONE should be connected with other Ethernet equipment (such as XDSL adapter, CABLE modem or PC) by crossing-over cable. Otherwise the direct-connecting cable is applied.

Connect the accessory power adapter with the power socket and insert the output plug into power adapter port 2 of the IP PHONE.

3. Set local IP address, subnet mask and router IP address
4. If use gatekeeper mode, please set gatekeeper IP address or set gatekeeper IP 0.0.0.0 to auto find gatekeeper.
5. If use E.164 number to call, please set Localalias 1; If use H.323 ID to call, please set Remotealias 1.
6. Detailed setting method and process please see section "Setting the IP PHONE".

Setting the IP PHONE

Optional setting methods

Set with keypad of the IP PHONE

Through network interface setting with standard Telnet program (Telnet user interface version firmware only?)

Through network interface setting with browser based on WEB (HTTP user interface version firmware only?)

Set with press keys

Press  pick up handset, and input password; No 19 LED flashing then the phone is under setting mode.

 **NOTE** Under setting mode, if you press  again or hang up the handset, the phone will return to the normal mode. When setting, " . " should be input by "* * ".

Setting local IP address

Under setting mode, Input the local IP address and then press  confirm,

and then the keypad light will be dark. When it is bright again, setting is successful. Press

again to check



Setting DHCP enable/disable

Under setting mode:



Press  and then press  confirm, setting the phone with DHCP.

Press  , and then press  confirm, setting the phone without DHCP.

Setting PPPoE Dial-up and disconnection

Under setting mode?

press  press  confirm? PPPoE dial-up disable?

press  press  confirm? PPPoE dial-up enable?

press  press  confirm? PPPoE dial-up disconnection.

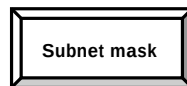
The IP PHONE reboot and settings take effect.

Setting subnet mask

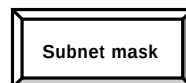
Input the subnet mask and then press  confirm, then the keypad light will

be dark. When it is bright again, setting is successful. Press  again to check the

subnet mask.



For example, press 255 * 255 * 255 * 0



subnet mask is set as

255.255.255.0

Setting router IP address

Under setting mode

Input the router IP address and then press



and then the keypad

light will be dark. When it is bright again, setting is successful.

Press



again to check the address.

For example, press 1 9 2 * 1 6 8 * 1 * 2 5



the gateway IP address is

set as 192.168.1.25

Setting gatekeeper mode enable/disable

Under setting mode:

Press



and then press



confirm, setting the phone without gatekeeper

mode.

Press



and then press



confirm, setting the phone with gatekeeper mode.

Setting services provider IP address

Under setting mode

Input the services provider IP address and then press



confirm, then the

keypad light will be dark. When it is bright again, setting is successful.

Press



again to check the service IP address.

For example, press 1 9 2 * 1 6 8 * 1 * 2 3



the services provider IP

address is set as 192.168.1.23.

If setting with gatekeeper mode, but setting gatekeeper IP 0.0.0.0, the phone auto find gatekeeper.

Logout from specify gatekeeper

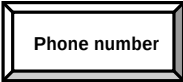
Under setting mode:

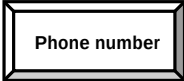
Press  then press  firm, the phone will log off to specify gatekeeper.

Setting phone number

Under setting mode

Input the phone number and then press , then the keypad light will be dark. When it is bright again, setting is successful.

Press  gain to check the number.

For example, press 6 2 7 8 1 4 1 7  then local phone number is set as 62781417.

Setting Quick dial phone number

Under normal mode, Press the number key from

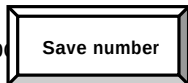
to



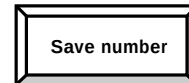
and then



to specify p



Under setting mode, input phone number and then press number will be stored at relevant position.



one

Setting upgrade with TFTP

Under setting mode?

press  press  confirm? upgrade with TFTP?

 **NOTE** The IP PHONE parameters can not be set by keypad when it is not in setting mode.

Setting with Telnet program (Telnet user interface version firmware only)

Connect the IP PHONE with standard Telnet program

Click “start”-> “run” in the windows desktop, and input “**Telnet 192.168.1.100**” in the command line, or input “**Telnet 192.168.1.100**” in the DOS command prompt window, the operation system will set up a “**Telnet window**” and connect to IP PHONE. There will be a prompt on “**Telnet window**” as follows:

```
IP PHONE 0.97 settings
Password:
```

Input password, the IP PHONE will request for password. If input is correct, the “**Telnet window**” display as follows:

```
Password: ****
P :>
```

If above-mentioned prompt appeared, the IP PHONE is ready for setting mode. All parameters can be set by commands of the IP PHONE.

 **NOTE** The IP PHONE's default setting is: IP address 192.168.1.100, password 1234. If three times of wrong input happened, the IP PHONE will be disconnected.

Detailed description of the IP PHONE commands

List of the IP PHONE commands

Command	Function
?	Supply command name and parameters
get	Display basic parameters of the IP PHONE

set Setting parameters of the IP PHONE

exit Exit from the setting mode but changes not saved

write Exit and save all settings and re-start the AT-323

Detailed description of the IP PHONE

Command ?

Syntax description: no optional parameter

Usage: supply command name and parameters under P :>. Also it can be the keyword for command set, supplying keyword and parameters of the relevant command.

Relevant usage: none

Detailed description

? List all commands help

For example :

```
P :> ?
set ?
get      list all settings
get adv  list advanced settings
exit
write    exit and save the configuration
```

Command get

Syntax description: no optional parameter of keywords

Usage: display basic parameters of the IP PHONE

Relevant usage: none

Detailed description?

get Display basic running parameters of the IP PHONE

For example :

```
P:\>get
protocol 0[h323]      password 1234      language 1[gb]
mac 00-09-45-64-04-0f  dhcp 0[disable]    debug 1
pppoe 0[disable]      pppid test1        ppppin test1
ip 192.168.1.120      subnetmask 255.255.255.0  router 192.168.1.1
dns 202.106.0.20      tftp 192.168.1.195
proxy 1               proxyip 211.147.17.41    rtpport 1760
q931port 1758         rasport 1758         h245port 1760
gk 1[enable]          gkid [empty]         gkip 192.168.1.195
localalias 1[e164]    remotealias 1[e164]    faststart 1
h323id [empty]        dtmf 0[H245 string]    gwip 0.0.0.0
dialplan 0[disable]   phonenum 120          dddcode 1
iddcode 86            iddprefix 00          dddprefix 00
innerline 0[disable]  localprefix 3         nonlocalprefix 4
cdr 0                 cdrip 192.168.1.1     maxnumberlen 10
prepaid 0             account 222           pin 222
answer 5              ringtype 0
audioframes 1         audiotype 2[g7231]     6.3k 1
handsetin 11          handsetout 20         handsettone 11
speakerin 12          speakerout 29         speakertone 11
vad 1                 agc 0                 aec 1
test 0 0 0 0 0 0
P:\>
```

Command set

Syntax description: optional keywords **password? protocol? language? mac? dhcp 0\1?**
debug ?pppoe 0\1?pppid?pppin?ip?subnetmask?router ?dns?tftp?proxy? proxyip?
rtpport? q931port? rasport? h245port? gk 0\1 ? gkid? gkip? localalias? remotealias?
faststart 0\1? h323id? dtmf? gwip? dialplan 0\1? phonenummer? dddcode? iddcode?
iddprefix? dddprefix? innerline 0\1? localprefix? nonlocalprefix? cdr 0\1? cdrip?
maxnumberlen? prepaid? account? pin? answer? ringtype? audioframes? audiotype?
6.3k? handsetin? handsetout? handsettone? speakerin? speakerout? speakertone? vad?
agc? aec? Usage: Set password and running parameters of the IP PHONE.

Relevant usage? **set password? set protocol? set language ? set mac? set dhcp 0\1?**
set debug? set ppoe 0\1? set pppid? set pppin? set ip? set subnetmask? set router ?
set dns? set tftp? set proxy? set proxyip? set rtpport? set q931port? set rasport? set
h245port? set gk 0\1? set gkid? set gkip? set localalias? set remotealias? set faststart 0\1?
set h323id? set dtmf? set gwip? set dialplan 0\1? set phonenummer? set dddcode? set
iddcode? set iddprefix? set dddprefix? set innerline 0\1? set localprefix? set
nonlocalprefix? set cdr 0\1? set cdrip? set maxnumberlen? set prepaid? set account?
set pin? set answer? set ringtype? set audioframes? set audiotype? set 6.3k? set
handsetin? set handsetout? set handsettone? set speakerin? set speakerout? set
speakertone? set vad? set agc? set aec?

Detailed description:

set password xxxxxxxx

Set password of the IP PHONE, parameter xxxxxxx must be all ASCII

characters and no longer than 7;

set protocol X

Set protocol of the IP PHONE, parameter X range from 0-2 , 0 for protocol is h323; 1 for protocol is sip; 2 for protocol is mgvp.

set language X

Set language of the IP PHONE IVR and language of the HTTP configuration page , parameter

X range from 0-2, 0 for English; 1 for Simplified Chinese (GB); 2 for Traditional Chinese

(BIG5).

set mac XX-XX-XX-XX-XX

Set MAC address of the IP PHONE, parameter xx-xx-xx-xx must be all HEX number;

 **NOTE** The IP PHONE's default setting the MAC address from IETF distributes, if change it probably can occur the conflict with other equipment.

set dhcp X

Parameter X range from 0-1,X-1 set to use DHCP, X-0 set without DHCP

set debug X

Set open debugging message output grade for special tool. X range from 0-2;X-0,close debugging output;X-1,open debugging output grade 1,output text debugging message;X-2,open debugging output grade 2, output not only text debugging message but also

set pppoe X

Parameter X range from 0-1,X-1 set to use PPPoE dial-up? X-0 set not to use PPPoE dial-up.

set ppp id

When PPPoE dial-up? set dial-up id?

set ppp pin

When PPPoE dial-up? set dial-up pin?

set ip XXX.XXX.XXX.XXX

Set IP address of the IP PHONE;

set subnetmask XXX.XXX.XXX.XXX

Set subnet mask of the IP PHONE;

set router XXX.XXX.XXX.XXX

Set router IP address of the IP PHONE;

set dns XXX.XXX.XXX.XXX

Set DNS IP address of the IP PHONE;

set tftp XXX.XXX.XXX.XXX

Set TFTP server IP address of the IP PHONE which is used for downloading upgrading programs;

If set TFTP 0.0.0.0 ,the phone auto find tftp service.

set proxy

Parameter of set IP PHONE to use build-in H323 proxy, X range form 0~5,meanings as

follows:

X-0 not to use build-in proxy;

X-1 to use build-in proxy, but please set proxyip;

X-2 to use build-in proxy, but auto find second level router;

X-3 to use build-in proxy, but auto find third level router;

x-4 to use build-in proxy, but auto find fourth level router;

x-5 to use build-in proxy, but find it with assistant serve;

set proxyip XXX.XXX.XXX.XXX

Set proxy IP address of the IP PHONE;

set q931port xxxxx

Set the q931 port number, Parameter xxxxx taking value scope should be avoided the famous known and within 1024-65535.

set rasport xxxxx

Set the ras port number, Parameter xxxxx taking value scope should be avoided the famous known and within 1024-65535.

set h245port xxxxx

Set the h245 port number, Parameter xxxxx taking value scope should be avoided the famous known and within 1024-65535.

set rtpport xxxxx

Set the h245 port number, Parameter xxxxx taking value scope should be avoided the famous known and within 1024-65535.

set phone number xxxxxxxxxxxxxxxx

Set E.164 phone number of the IP PHONE, parameter xxxxxxxxxxxxxxxx must be all numbers within 0-9 and no longer than 15;

 **NOTE** Parameter xxxxx taking value scope should be avoided the famous known and

within 1024-65535, In order to avoid giving rise to the conflict .RTP port number must be even number.

set gk x

x range form 0~1, X-1 set to use gatekeeper, X-0 set

without gatekeeper.

set gkid X

set gatekeeper ID.parameter max length is 16 ,range from 0-9 and ASCII character.

set gkip XXX.XXX.XXX.XXX

Set gatekeeper IP address ,if set gk 1 and set gkip 0.0.0.0,the phone

auto find gatekeeper.

set localalias X

set IP PHONE gatekeeper logon alias? X range form 0~1? X-0? phone number logon with

H323ID? X-1? phone number logon with E.164?

set remotealias X

set IP PHONE call parameter after logon on? X range form 0~1? X-0? calling number with

H323ID for gatekeeper? X-1? calling number with E.164 for gatekeeper?

set fast start X

Parameter X range from 0-2, X-0 set without fast start.X-1 set to use fast start when calling,

X-2? set to use fast start and H245 tunneling. Advice to set X-2, unless the callings is errors,

please try to set X 0 or 1.

set h323id xxxxxxxxxxxxxxxx

Set IP PHONE H.323 ID? X max length is 16,X range from 0-9 and ASCII character.

set dtmf X

Set IP PHONE DTMF relay type, parameter x range form 0~3,it means:

X-0 set H245 String;X-1 set H245 signal;X-2 set Q931-keypad;X-3 set

RFC2833 . Default is 0.

set gwip XXX.XXX.XXX.XXX

Set audio gateway IP address of the IP PHONE which is used for direct

call. If set gwip 0.0.0.0, phone not use audio gateway.

set dialplan X

Parameter X range from 0-1,X-1 set to use dial plan? X-0 set without dial plan. When set X-1,

ddcode? idcode? iddprefix? ddprefix? maxnumberlen enable.when set X-0,these

parameters disable.

set phonenum xxxxxxxxxxxxxxxx

Set IP PHONE to use E.164 number? parameter

Xxxxxxxxxxxxx max length is 16? range from 0-9 number?

set countrycode xxxx

Set the country code according to E.164 rule. For example, the country code of china is 86; the

country code of USA is 1, etc.

set iddprefix xxx

Set IDD service prefix number according to E.164 rule. For example, IDD service prefix

number of china is 00; IDD service prefix number of USA is 1, etc.

set areacode xxxx

Set the area code according to E.164 rule. For example, the area code of Beijing is 10; the area code of Shanghai is 21, etc.

set dddprefix xxx

Set DDD service prefix number according to E.164 rule. For example, DDD service prefix number of china is 0; DDD service prefix number of USA is 1, etc.

set innerline X

Parameter X range from 0-1,X-1 enable set to use AT-323 as a extension? X-0 disable set without AT-323 as a extension.

set localprefix x

Set the prefix number to access local outside line.parameter X max length is 1 and range from 0-9.

set nonlocalprefix x

Set the prefix number to access long-distance outside line. parameter X max length is 1 and range from 0-9.

set cdr X

Parameter X is range from 0-1,X-1 set to output CDR? X-0 set without output CDR.

set cdrip xxx.xxx.xxx.xxx

Set CDR server IP address.

set maxnumberlen x

Set the local phone number length. For example, the local phone number length of Beijing is 8, Shanghai is 8, Lhasa is 7, etc.Parameter X max length is 1 and range from 0-9.

set prepaid X

Parameter X range from 0-1,X-1 set to use prepaid calling card.X-0 set without prepaid calling card.

set acount xxxxxxxxxxxxxxxxx

Set the prepaid calling card account, the account length is within 16 digits.

set pin xxxxxxxxxxxxxxxxx

Set the prepaid calling card pin, the pin length is within 16 digits.

set answer X

set IP PHONE auto-answer after some rings,X range from 0-9,X-0 set to not answer. Default is 5,Max is 9.

set ringtype x

Parameter X range from 0-3? x-0 use default ring? x-1? use ring1? x-2? use ring 2? x-3? use ring3?

set audio frames x

Set the audio frames of each data packet and set which codec to be used, when set audio frames, parameter x is within 1-7;

set audio type x

Set the audio type which codec to be used, parameter x is within 1-5; It means:

0-----G.711U? 1-----G.711A? 2-----G.723.1? 3-----G.729

4-----G.729A? 5-----G.729AB

set 6.3K X

Set IP PHONE with G.7231? use 6.3K? Patameter X range from 0-1,X-1 use 6.3K and X-0 use 5.3k.

set handfree input X

Set initial volume of handfree microphone. X must be within 0-15.

set handfree output X

Set initial volume of handfree speaker. X must be within 0-31.

set handfree tone X

Set initial volume of handfree dial-tone. X must be within 0-15.but x=0 equal to x=15.

set handset input X

Set initial volume of handset microphone. X must be within 0-15.

set handset output X

Set initial volume of handset speaker. X must be within 0-31.

set handset tone X

Set initial volume of handset dial-tone. X must be within 0-31. but x=0 equal to x=15.

set vad X

Parameter X range from 0-1,X-1e set to use VAD,X-0 set without VAD.

set aec X

Parameter X range from 0-1,X-1e set to use AEC,X-0 set without AEC..

set agc X

Parameter X range from 0-1,X-1e set to use AGC,X-0 set without AGC.

For example:

```
P:\> set phone number 62781513
```

```
P:\> set e164 enable
```

 **NOTE** Parameters set by command set should be stored by command write and they will not be effective until the IP PHONE is restarted.

Command exit

Syntax description: no keyword and parameter

Usage: exit from connection with Telnet, all changes will not be saved.

Relevant usage: none

Detailed description: none

For example:

```
P :> exit  
exit without save  
goodbye
```

Command write

Syntax description: no keyword and parameter

Usage: save all settings and restart the IP PHONE

Relevant usage: none

Detailed description: none

For example:

```
P:>write
```

 **NOTE** Telnet command should be input by minuscule and password is sensitive to capital letter and minuscule.

Setting with browser based on WEB

 **Note** Please use standard browser based on WEB, for example Microsoft IE?
Netscape
Navigator etc.

Input IP PHONE IP address in browser address column? <http://192.168.1.100>? See also

Fig 17.

Fig 17 Setting with browser based on WEB

Verify the user password

Input user password to “password” column? See also Fig 18.

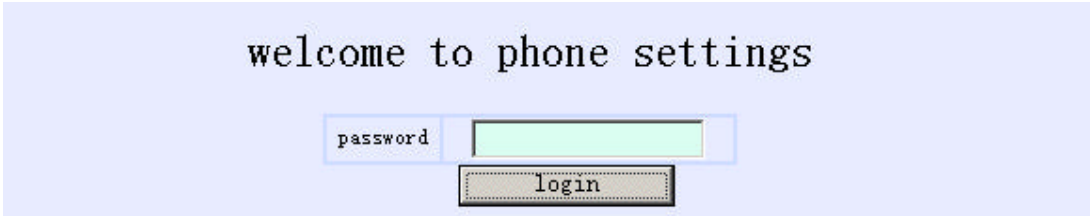


Fig 18 Input passwords

 **Note** The IP PHONE's default password 1234.

Basic

settings

tcp/ip settings				
mac	00-09-45-00-00-54	use dhcp	☐	
pppoe	☐	ppp id		ppp pin
ip	192.168.1.118	subnet mask	255.255.255.0	router
dns	202.106.2.20	tftp	0.0.0.0	
h.323 settings				
proxy	0	proxy ip	9.9.9.9	rtp port
q.931 port	1750	ras port	1750	h.245 port
use gk	☒	gk id		gk
h323 id		dtmf	H245 String	gw
phone settings				
dial plan	☐	phone number	118	ddd code
idd code	86	idd prefix	00	ddd prefix
inner line	☐	local prefix	0	nonlocal prefix
cdr	0	cdr ip	0.0.0.0	max phone number
prepaid	0	account		pin
answer	5	ring type	0	
handset input	11	handset output	20	speaker output
		update	speed dial	

TCP/IP settings

TCP/IP settings item can set “Local IP”? “subnet mask”? “route IP”? “use DHCP” ?

“TFTP IP” ? “DNS IP” etc. See also Fig 19.

tcp/ip settings				
mac	00-09-45-00-00-54	use dhcp	☐	
pppoe	☐	ppp id		ppp pin
ip	192.168.1.118	subnet mask	255.255.255.0	router
dns	202.106.2.20	tftp	0.0.0.0	

Fig 19 TCP/IP settings

H? 323 settings

H.323 settings item can set “ use GK” ? “GK IP address” ? “With proxy”? “proxy IP”?

“Q.931port”? “RASport” ? “H.245 port” ? “RTPport”? “GW IP ” ? “With fast start” ?

“DTMF relay”etc. See also Fig 20.

h.323 settings				
proxy	0	proxy ip	9.9.9.9	rtp port
q.931 port	1750	ras port	1750	h.245 port
use gk	☒	gk id		gk
h323 id		dtmf	H245 String	gw

Fig 20 H.323 settings

Phone settings

Phone settings item can set “Phone number”, “With dial plan?” “number length” ?

“DDD code” ? “IDD prefix” ? “IDD code” ? “DDD prefix” “Auto-answer”, “Ring number”

“With innerline?” “localprefix” ? “nonlocalprefix” etc. See also Fig 21.

phone settings					
dial plan	☐	phone number	118	ddd code	10
idd code	86	idd prefix	00	ddd prefix	0
inner line	☐	local prefix	0	nonlocal prefix	9
cdr	0	cdr ip	0.0.0.0	max phone number	8
prepaid	0	account		pin	
answer	5	ring type	0		
handset input	11	handset output	20	speaker output	31

Fig 21 Phone Settings

NOTE Parameter xxxxx taking value scope should be avoided the famous known and within 1024-65535, In order to avoid giving rise to the conflict .RTP port number must be even number.

Fixing after the above parameter, click“Update” button? Write back to the IP PHONE.

Speed Dial settings

Speed dial settings item can set “Dial number”? “Name” and “Phone number” etc. See also

Fig 22.

Speed Dial Settings

VIP (001-028)					
Dial	Name	Phone number	Dial	Name	Phone number
001	114	114	015		
002	192	192*168*1*2	016		
003	nt	12	017		
004	openp	102	018		
005	112	112	019		
006			020		
007			021		
008			022		
009			023		
010			024		
011			025		
012			026		
013			027		
014			028		

Fig 22 Speed Dial Settings

Fixing after the above Speed dial parameter, click “Save and go to ”button to next page or press “Save and back” button skip to basic setting? then parameter write back to the IP PHONE.

Operating the IP PHONE

Operation

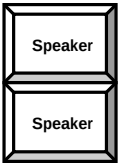
Receiving a call

If being called, the IP PHONE will ring to remind you a call in.

1. Receiving a call with handset: pick up the handset and you can communicate with the other end. When communication is over, hang up the handset to standby status.

2. Receiving with the handset transferring to hand free: When receiving a call with the speaker, press  the speaker to continue calling with hand free. When call is over, press  to standby status.

3. Receiving a call with hand free: When the IP PHONE rings, press

 to communicate with the other end. When call is over, press  to standby status.

4. Receiving a call with hand free transferring to handset: When communicating with hand free, pick up the handset and you can continue communication with the handset. When call is over, hang up the handset to standby status.

 **NOTE** When communicate with hand free, please keep at most 40cm from the microphone to ensure talking quality.

Calling with gatekeeper mode

Call with the handset: Pick up the handset, if dialing tone heard, you can dial the number or IP address of other endpoint. And then press

 .When  tone heard, the called phone is ringing and waiting for receiving. When call is over, hang up the handset to standby status. Then the dialed number and calling time is stored in calling memory.

Call with hand free: Press  and  tone heard, you can dial the number. When call is over, press the hand free key to standby status. Then the dialed number and calling time is stored in calling memory.

Beforehand dial-up: Press you want dial the number, and then press  ? pre

–dia  ber will calling.

If busy tone heard after the number dialed, the called party is communicating. Hang up the

speaker and call again later. When dialing tone heard, you can press  to dial the

number called last time.



5. Quick dial-up: Input the number of quick dial-up, press



u can dial the

number preset.

Call without gatekeeper

The IP PHONE can only call directly with IP address under no gatekeeper mode. Pick up the

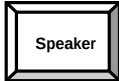
handset, if dialing tone heard, dial the called IP address and then press . For example,

if the calle  address is 92.126.1.102, press 192*126*1*102, and then press . You

can finish calling by hanging up the ha  anytime.

Calling directly with audio gateway

When without gatekeeper mode, the IP PHONE can call directly with audio gateway.

Pick up the handset or press  dialing tone heard, you can dial the number.

When call is over, Hang up the handset or press the hand free key to standby status.



NOTE Under this mode, the gatekeeper IP address should be set as 0.0.0.0, details see section setting the IP PHONE.

PPPoE dial-up

1)Use Telnet? set the IP Phone. Set PPPoE enable? set dial-up id and pin? then write? The phone will reset.

Example?

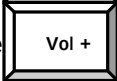
P:\>set pppoe enable	Set PPPoE
P:\>set ppp id pa1688	Set user name
P:\>set ppp in 1234	Set user password
P:\>write	

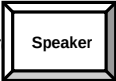
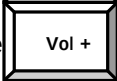
2)After phone reset? Phone dial--up with PPPoE?

3)End of using or disconnect PPPoE? press  d  connect the link?

Speaker Volume Adjustment

Under normal mode, If Pick up the handset, press  the handset

volume, and then press  to lower handset volume. If press  , and

then press  to louder the speaker volume, press  to lower the

speaker volume.

Under setting mode, the default volume of the handset can be set.

 **NOTE** Under normal mode, the adjusted volume cannot be stored. If the phone is shut up, the volume will return to the default volume.

Review made calls and received calls

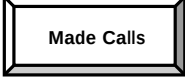
Review received calls

Press  received call number will be played; and

press  where the received calls number will be played backward one by

one.

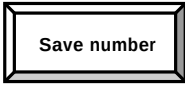
Review made calls

Press  call number will be played; and press  , where

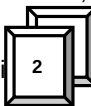
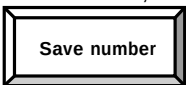
the received  will be played backward one by one.

Quick dial-up

1. Play the saved quick dial-up number

Press the number key from   then press 

appointed number will be played the number is stored at relevant position.

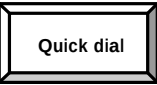
For example, press , and then press , the phone number preset

at position will be played.

2. Calling with quick dial-up number

Press the number key from   and press  then you can call

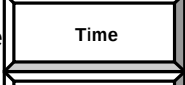
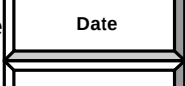
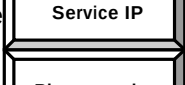
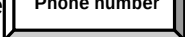
the number preset.

For example, press    the number preset at No.22 position will be called.

 **NOTE** Quick dial phone number range from 0-112.

Voice Prompting

Under standby status, without picking up the handset, press

? Voice		IP xxx.xxx.xxx.xxx"
? Voice		net mask xxx.xxx.xxx.xxx"
? Voice		ter IP xxx.xxx.xxx.xxx"
? Voice		ices provider IP xxx.xxx.xxx.xxx"
? Voice		he number xxxxxx"

 **NOTE** Voice prompting can only be performed under normal mode.

IP PHONE Upgrade

Setting TFTP service

TFTP Service can be choiced from ISP and agent? consumer can also span TFTP service in

LAN?

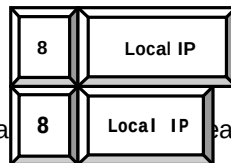
Use communal TFTP Service? please set IP PHONE TFTP IP? If set TFTP IP 0.0.0.0? IP PHONE will find TFTP service from LAN by broadcast.

Prepare Upgrade files

Please ask for the new upgrade files from agent or manufacturer? or download it from

www..com.cn?

Upgrade Operation



If use communal TFTP service? please set IP PHONE TFTP IP address? then? under setting mode? press  IP PHONE phone will get the upgrade files from appointed TFTP service? After getting the files? IP PHONE auto upgrade? then reboot? Upgrade operation finish?

If use local TFTP service? please set IP PHONE TFTP IP or set TFTP IP 0.0.0.0 to auto find TFTP IP address? After getting upgrade files? If the files be compressed files? please decompress the files in a directory? and change the TFTP Server Root directory as the directory which include the upgrade files?



NOTE Don't change the files name, or else upgrade fail.

Any changes of the product performance and specification referred herein this manual will not be advised later.

